AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the

application:

Claims 1-37 (Canceled).

(Currently Amended) An architecture for monitoring quality of service in a 38.

telecommunication network comprising:

a set of mobile terminals, each mobile terminal of said set of mobile terminals

housing at least one measuring agent configured to interface with processes selected

from a group of processes for managing application sessions of said telecommunication

network and processes for measuring operating conditions of said telecommunication

network to derive therefrom a set of measurement data; and

a management and configuration subsystem comprising a scheduling module for

scheduling quality of service measuring campaigns, said scheduling module identifying

a subset of said set of mobile terminals according to a set of identifying characteristics

of a defined measuring campaign and configuring, for executing said defined measuring

campaign at least one measuring agent housed by each mobile terminal of said subset

according to said set of identifying characteristics,

wherein each mobile terminal of said set of mobile terminals comprises:

an elaboration agent configured to pre-process said set of measurement

data derived from said application session; and

a communication agent configured to send said set of pre-processed

measurement data to said management and configuration subsystem.

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- 39. (Previously Presented) The architecture as claimed in claim 38, wherein an additional subsystem is provided for managing a collection of measurement data resulting from said defined measurement campaign, said additional subsystem comprising at least one of a database for storing said collection of measurement data and of a processing centre for processing said collection of measurement data.
- 40. (Currently Amended) The architecture as claimed in claim 38, wherein said at least one measuring agent housed by each <u>mobile</u> terminal of said set of <u>mobile</u> terminals is configured to dialogue with at least one homologous measurement and management agent.

41. (Canceled)

42. (Currently Amended) The architecture as claimed in claim 39, wherein said at least one measuring agent housed by each <u>mobile</u> terminal of said subset is configured to perform operations selected from the group of:

conducting co-ordinated measurements on said telecommunication network,

performing local storage and pre-processing operations according to a set of
processing conditions of said telecommunication network, and

managing a transfer of the collection of measurement data resulting from said defined measurement campaign to said additional subsystem.

43. (Currently Amended) The architecture as claimed in claim 38, wherein said at least one measuring agent housed by each mobile terminal of said subset is configured to conduct measurements selected from the group of:

measuring quality and operating conditions of a set of radio access parameters of said subset.

monitoring end-to-end transport performance in real traffic,

monitoring end-to-end transport performance in artificial traffic,

measuring and processing said subset to produce quality of service indicators at an application layer, and

monitoring operating conditions of a set of resources of said subset and of said telecommunication network.

- 44. (Currently Amended) The architecture as claimed in claim 38, wherein said at least one measuring agent housed by each of said subset is configured to measure a load state of at least one <u>mobile</u> terminal of said subset and/or of the telecommunication network and to adapt a monitoring of quality of service in said telecommunication network to the measured load state.
- 45. (Currently Amended) The architecture as claimed in claim 38, wherein said management and configuration subsystem comprises at least one communication agent that interfaces with <u>said</u> at least one communication agent associated with said at least one measuring agent housed by each <u>mobile</u> terminal of said set of <u>mobile</u> terminals.
- 46. (Previously Presented) The architecture as claimed in claim 39, wherein said management and configuration subsystem comprises at least one communication agent that interfaces with at least one homologous communication agent associated

with said additional subsystem.

47. (Previously Presented) The architecture as claimed in claim 38, wherein

said management and configuration subsystem comprises an interface for interfacing

with a user.

48. (Currently Amended) The architecture as claimed in claim 39, wherein

said additional subsystem comprises a communication agent configured to

communicate with at least one communication agent associated with said at least one

measuring agent housed by each mobile terminal of said set of mobile terminals.

49. (Previously Presented) The architecture as claimed in claim 39, wherein

said additional subsystem comprises an interface for interfacing said architecture with at

least one external system.

50. (Currently Amended) The architecture as claimed in claim 39, wherein

said at least one measuring agent housed by each mobile terminal of said subset is

configured to transfer said collection of measurement data to said additional subsystem.

51. (Currently Amended) The architecture as claimed in claim 38, wherein

said at least one measuring agent housed by each mobile terminal of said set of mobile

terminals operates according to Jade technology.

52. (Currently Amended) The architecture as claimed in claim 40, wherein

said at least one measuring agent housed by each mobile terminal of said subset

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dialogue with said at least one homologous measurement and management agent with a communication resource selected from the group of:

information transport by means of SMS.

TCP/IP transport, and

UDP/IP transport.

(Currently Amended) The architecture as claimed in claim 38, wherein 53 said scheduling module is configured to perform at least one operation selected from the group of:

defining the set of identifying characteristics of the defined measurement measuring campaign,

identifying the subset of said set of mobile terminals to be subjected to said measuring campaign,

defining a set of measurements to be made and a set of quality of service indicators to be obtained.

defining a set of characteristics of the set measurements to be made, and defining a set of contextual information associated with the set of measurements to be made and carried out by said at least one measuring agent housed by each mobile terminal of said subset.

(Currently Amended) The architecture as claimed in claim 38, wherein, in 54. order to identify said subset of said set of mobile terminals, said scheduling module is configured to carry out operations selected from the group of:

continuously searching for the subset of said set of <u>mobile</u> terminals meeting the set of identifying characteristics of the defined measuring campaign,

recording said subset of said set of <u>mobile</u> terminals on an internal database, creating a measurement profile with information for conducting a set of

measurements by the at least one measuring agent housed by each <u>mobile</u> terminal of said subset of said set of <u>mobile</u> terminals,

activating the defined campaign on each <u>mobile</u> terminal of said subset of said set of mobile terminals,

sending the set of measurements collected from each <u>mobile</u> terminal of said subset of said set of mobile terminals.

identifying at least one <u>mobile</u> terminal that no longer meets the set of indentifying characteristics of the defined measuring campaign,

deactivating the defined measuring campaign, and

deleting the measurement profiles from said each mobile terminal of said subset
of said set of mobile terminals.

55. (Currently Amended) A method for monitoring quality of service in a telecommunication network comprising a set of <u>mobile</u> terminals comprising:

associating each <u>mobile</u> terminal of said set of <u>mobile</u> terminals with at least one measuring agent configured to interface with processes selected from a group of processes for managing application sessions of said telecommunication network and processes for measuring operating conditions of said telecommunication network <u>to derive therefrom a set of measurement data</u>, <u>wherein the mobile terminals comprise</u>:

an elaboration agent configured to pre-process said set of measurement

data derived from said application session; and

a communication agent configured to send said set of pre-processed

measurement data to said management and configuration subsystem, and

conducting quality of service measuring campaigns, each quality of service

measuring campaign involving a subset of said set of mobile terminals according to a

set of identifying characteristics of a defined measuring campaign and configuring, for

executing said defined measuring campaign, at least one measuring agent associated

with each mobile terminal of said subset according to said set of identifying

characteristics.

56. (Previously Presented) The method as claimed in claim 55, comprising

managing a collection of measurement data and providing at least one of a database for

storing said collection of measurement data and a processing centre for processing said

collection of measurement data.

57. (Currently Amended) The method as claimed in claim 55, comprising

configuring said at least one measuring agent associated with each mobile terminal of

said set of mobile terminals to dialogue with at least one homologous measurement and

management agent.

58. (Canceled)

59. (Currently Amended) The method as claimed in claim 55, comprising

configuring said at least one measuring agent associated with each mobile terminal of

said subset to perform steps selected from the group of:

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conducting co-ordinated measurements on said telecommunication network, performing local storage and pre-processing operations according to a set of processing conditions of said telecommunication network, and

managing a transfer of a collection of measurement data resulting from conducting the defined measuring campaign to an additional sub-system for managing the collection of the measurement data.

60. (Currently Amended) The method as claimed in claim 55, comprising configuring said at least one measuring agent associated with each mobile terminal of said subset to conduct measurements selected from the group of:

measuring quality and operating conditions of a set of radio access parameters of said subset.

monitoring end-to-end transport performance in real traffic,

monitoring end-to-end transport performance in artificial traffic,

measuring and processing on said subset for the production of quality of service indicators at an application layer, and

monitoring operating conditions of a set of resources of said subset and of said telecommunication network.

61. (Currently Amended) The method as claimed in claim 55, comprising: measuring, by means of said at least one measuring agent associated with each mobile terminal of said subset, a load state of at least one mobile terminal of said subset and/or of said telecommunication network, and

adapting a monitoring of quality of service in said telecommunication network to

the measured load state.

62. (Currently Amended) The method as claimed in claim 55, comprising

providing a sub-system for the management and configuration of the quality of service

measurement campaigns that interfaces with said at least one measuring agent

associated with each mobile terminal of said set of mobile terminals.

63. (Previously Presented) The method as claimed in claim 56, comprising:

providing a sub-system for the management and configuration of the quality of

service measurement campaigns, and

providing an additional sub-system for managing the collection of measurement

data that interfaces with said sub-system for the management and configuration of the

quality of service measurement campaigns.

64. (Previously Presented) The method as claimed in claim 55, comprising

providing a sub-system for the management and configuration of the quality of service

measurement campaigns that interfaces with a user.

65. (Currently Amended) The method as claimed in claim 56, comprising

providing an additional sub-system for managing the collection of measurement data

configured to communicate with said at least one measuring agent associated with each

mobile terminal of said set of mobile terminals.

66. (Previously Presented) The method as claimed in claim 56, comprising

providing an additional sub-system for managing the collection of measurement data

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configured to interface with at least one external system.

67. (Currently Amended) The method as claimed in claim 56, comprising:

providing an additional sub-system for managing the collection of measurement

data, and

configuring said at least one measuring agent associated with each mobile

terminal of said subset to transfer said collection of measurement data to said additional

sub-system.

68. (Currently Amended) The method as claimed in claim 55, wherein said at

least one measuring agent associated with each mobile terminal of said set of mobile

terminals operates according to Jade technology.

69. (Currently Amended) The method as claimed in claim 57, comprising

configuring said at least one measuring agent associated with each mobile terminal of

said set of mobile terminals for dialoguing with said homologous measurement and

management agent with a communication resource selected from the group of

information transport by means of SMS,

TCP/IP transport, and

UDP/IP transport.

70. (Currently Amended) The method as claimed in claim 55, wherein

conducting said quality of service measurement campaigns in turn comprises at least a

step selected from the group of:

defining the set of identifying characteristics of the defined measuring campaign,

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identifying the subset of said set of <u>mobile</u> terminals to be subjected to said defined measuring campaign,

defining a set of measurements to be made and a set of quality of service indicators to be obtained.

defining a set of characteristics of said set of measurements to be made, and defining a set of contextual information associated with said set of measurements to be made and carried out by said at least one measuring agent associated with each mobile terminal of said subset.

71. (Currently Amended) The method as claimed in claim 55, further comprising, in order to identify said subset of said set of <u>mobile</u> terminals, the steps selected from the group of:

continuously searching for the subset of said set of <u>mobile</u> terminals meeting the set of identifying characteristics of the defined measuring campaign,

recording said subset of said set of <u>mobile</u> terminals on an internal database, creating a measurement profile with information for conducting a set of measurements by the at least one measuring agent associated with each <u>mobile</u> terminal of said subset.

activating the defined measuring campaign on each mobile terminal of said subset.

sending the set of measurements collected from each <u>mobile</u> terminal of said subset of said set of mobile terminals,

identifying at least one <u>mobile</u> terminal that no longer meets the set of identifying characteristics of the defined measuring campaign,

deactivating the defined measuring campaign, and

deleting the measurement profile from each <u>mobile</u> terminal of said subset of said set of mobile terminals.

 (Previously Presented) A telecommunication network comprising, the architecture as claimed in claim 38, and associated with the telecommunication

network.

73. (Previously Presented) The telecommunication network as claimed in

claim 72, comprising at least an application server housing at least one measuring

agent that interacts with said architecture.

74. (Currently Amended) A computer-readable medium storing a computer

program product for execution on a processor, the computer program product

comprising portions of software code for implementing the method as claimed in any

one of claims [[55-71]] 55-57 and 59-71.

75. (Canceled)

76. (Canceled)

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